RRRRRRRRRRR	MMM MMM	SSSSSSSSSS
RRRRRRRRRRR	MMM MMM	SSSSSSSSSS
RRRRRRRRRRR	MMM MMM	SSSSSSSSSS
RRR RRR	MMMMMM MMMMMM	SSS
RRR RRR	MMMMMM MMMMMM	SSS
RRR RRR	ммммм мммммм	SSS
RRR RRR	MMM MMM MMM	SSS
RRR RRR	MMM MMM MMM	SSS
• • • • • • • • • • • • • • • • • • • •		SSS
	MMM MMM MMM	
RRRRRRRRRRR	MMM MMM	SSSSSSSS
RRRRRRRRRRR	MMM MMM	SSSSSSSS
RRRRRRRRRRR	MMM MMM	SSSSSSSS
RRR RRR	MMM MMM	SSS
RRR RRR	MMM MMM	SSS
RRR RRR	MMM MMM	ŠSS
RRR RRR	MMM MMM	ŠŠŠ
RRR RRR	MMM MMM	SSS
RRR RRR	MMM MMM	ŠŠŠ
RRR RRR	MMM MMM	SSSSSSSSSSS
• • • • • • • • • • • • • • • • • • • •		\$\$\$\$\$\$\$\$\$\$\$\$\$
RRR RRR	MMM MMM	\$\$\$\$\$\$\$\$\$\$\$\$

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NT!
NT!
NT!
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NT!
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NT: NT: NT: NT: NT:

NT NT NT NT NT PI

RRRRRRR RRRRRRR RR RR RR RR RR RR RR RRRRRR	MM MM MMM MMMM MMMM MMMM MMM MM MM MM MM	\$	000000 000000 00 00 00 0000 00 00 00 00 00	MM MM MMMM MMMM MMMMM MMMM MM MM MM MM MM	AAAAA AA AA AA AA AA AA AA AA AA AA AAAAAA	GGGGGGGG GG GG GG GG GG GG GG GG GG GG	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	AAAAA AA AA AA AA	• • • • • • • • • • • • • • • • • • • •
		\$							

RMSOMAGTA Table of contents	\$NXTVOL, \$SPACE & OTHER MAGTAPE CODE 1	16-SEP-1984 01:22:12	VAX/VMS Macro V04-00
(2) 93 (3) 121 (9) 334 (10) 372 (11) 414 (14) 495	DECLARATIONS  \$SPACE ROUTINE  \$NXTVOL ROUTINE  RM\$REWIND MT - INTERNAL ROUTINE TO REWIND MT  MTFUNC - SUBROUTINE TO ISSUE A MAGTAPE CONTROL QIO  RM\$HTTAPMARK WRITE TAPE MARKS	0	

RMS(

11 :\*

14 ;\*

15 :\*

16 ;\*

20 :\*

26:

31

37

38

39

40

41

45

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16-SEP-1984 01:22:12 VAX/VMS Macro V04-00 5-SEP-1984 16:25:05 [RMS.SRC]RMSOMAGTA.MAR:1

Page (1)

SBEGIN RMSOMAGTA,000, RMSRMS, <\$NXTVOL, \$SPACE & OTHER MAGTAPE CODE>

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: Facility: RMS32

This module provides the \$SPACE and \$NXTVOL RMS services as well as the internal magtape rewind file code.

Environment:

STAR processor running STARLET exec.

Author: L f Laverdure, creation date: 13-DEC-1977

Modified By:

V03-003 JEJ0026 J E Johnson 11-Apr-1984 Tie off invalid network operations.

V03-002 DGB0008 Donald G. Blair 01-Mar-1984 Change the way the ACP is called as part of the restructuring necessary for access mode protected files.

V03-001 KBT0173 Keith B. Thompson 23-Aug-1982 Reorganize psects

V02-020 CDS0001 C Saether 20-Dec-1981 Clear BIO\_LAST after rabset.

V02-019 DMW0001 30-Nov-1981 David Michael Walp Return EOF error rather then DPE if "END OF VOLUME" error and foreign tape

Abstract:

35

MTFI MTS MTX NOTI NTS

RMS

Sym

SSR

SSR

SSR

SSR

DEV'

DEV

DEV

DEV'

ERR

**EXI** 

FIB

FIB

F1B

FIB

FIB

FIB

IFB

IFB

IFB

IFB

IFB

IFB

10\$

10\$

10\$

10\$

10\$

10\$

IRB

IRB!

IRB!

IRB!

IRBS

IRB!

IRB:

MTE

MTFI

MTF

MTF

NTS NTN NTS PIO RAB

RAB RMS RMS RMS RMS RMS

RMS

0000

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91

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G 3
SNXTVOL, SSPACE & OTHER MAGTAPE CODE
                                              16-SEP-1984 01:22:12 VAX/VMS Macro V04-00 
5-SEP-1984 16:25:05 [RMS.SRC]RMSOMAGTA.MAR;1
                                                                                                       Page
                                                                                                              2
(1)
              58
59
                                    MCN0001 Maria del C. Nasr, 25-Aug-1980
After the NXTVOL function is completed, if not at EOF, the
     0000
                           V2-018 MCN0001
      0000
      0000
               60
                                    position context should be destroyed, by clearing the
      0000
              61
                                    offset into the block, setting NRP_VBN to 1, and EBK to -1.
              62
      0000
      0000
                           VO2-017 REFORMAT
                                                      Keith B. Thompson
                                                                                  29-Jul-1980
      0000
               64
      0000
              65
                           V016
                                    PSK0012
                                                      P S Knibbe
                                                                        15-Feb-1980
                                                                                           01:20
      0000
               66
                                    on space eof context should be destroyed. IRB$V_EOF bit
      0000
              67
                                    is cleared, NRP_VBN is set to one and ebk is set to -1
      0000
               68
                                    FSK0011
      0000
              670
777
777
777
777
777
777
777
                           V015
                                                      P S Knibbe
                                                                        13-Dec-1979
      0000
                                    if an eof is returned on an ansi magtape, set the IRB$V_EOF bit
      0000
                                    and set IRB$V_NRP_VBN equal to ebk to make sure that the bit
      0000
                                    gets tested.
      0000
      0000
                           V014
                                    PSK0001
                                                      P S Knibbe
                                                                         20-Nov-1979
                                                                                           06:30
                                    added routine to write tape marks at end of file.
      0000
      0000
                                    also changed rewind to clear IFB$V_EOF bit and IRB$V_EOF bit
      0000
      0000
                           V013
                                                                         05-Sep-1979
                                                                                           12:00
                                    JAK0020
                                                      J A Krycka
      0000
                                    release 2.0 work.
      0000
               80
      0000
               81
                           V011
                                                                         20-Dec-1978
                                                                                           10:15
                                    RAN0004
                                                      R A Newell
              82
83
      0000
                                    eliminate wait on tape rewind i/o function.
      0000
      0000
              84
                    Revision History:
              85
      0000
                                              31-0ct-1978 10:40
18-Sep-1978 09:09
      0000
              86
                           L f Laverdure,
                                                                         ; set nowait for foreign mt rewind
     0000
                                                                         ; changed entry pt name for isam fit
                           R A Newell,
              87
                           R A Newell,
              88
                                              31-Aug-1978 12:01
                                                                         : eliminate wait for i/o on mbx
              89 :--
90 :
```

RMS(

Pse(

PSE(

RMSF

SABS

Pha:

Init

Coma

Pass

Symt

Pas:

Symt

Psec

Cros

Asse

The

8864

The

549

25 E

Macı

\$2! \$2! \$2! TOT/

1881

Thei

MACI

116 ; 117 ; Own Storage: 118 ; 119

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16-SEP-1984 01:22:12 5-SEP-1984 16:25:05

VAX/VMS Macro V04-00

[RMS.SRC]RMSOMAGTA.MAR:1

SNXTVOL. SSPACE & OTHER MAGTAPE CODE

SSPACE ROUTINE

RMS(

Tabl

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	SNXTVOL, SS SSPACE ROUT	SPACE & OTHER	MAGTAPE	J 3 CODE 16-SEP-1984 01:22:12 VAX/VMS Macro V04-00 Page 5 5-SEP-1984 16:25:05 [RMS.SRCJRMSOMAGTA.MAR;1 (3)
31 6A 3E 03 6A 0E 00A0 FFE4'	000A E0 000E E0 0012 31 0016 30 0019	178 179 180 181 182 10\$:	CSB BBS BBS BRW BSBW	<pre>#IRB\$V_BIO_LAST,(R9)</pre>
21 50 20 A9 44 A9 56 38 A8 05 30 6A	E9 001C D4 001F B4 0022 D0 0025 E1 0029 002B	183 184 185 186 187 188	BLBC CLRL CLRW MOVL BBC	RO,EXIT IRB\$L_CURBDB(R9) IRB\$W_NRP_OFF(R9) RAB\$L_BKT(R8),R6 #DEV\$V_SQD,- IFB\$L_PRIM_DEV(R10),SPDISK  ; get out on error ; say no current bdb ; start at beginning next block ; pick up space count ; branch if not magtape
40 A9 01	002D 0031 00 0031 0035	189 190 191 192	C S B MOVL	#IRB\$V_EOF,(R9) ; clear the eof bit - we're no ; longer at eof #1,IRB\$L_NRP_VBN(R9) ; nrp should equal 1 to avoid ; problems comparing with ebk
74 AA 01 0085 0C A8 56 FFBD'	CE 0035 30 0039 DO 003C 31 0040 0043	193 194 195 SPEXIT: 196 EXIT: 197	MNEGL BSBW MOVL BRW	#1, IFB\$L_EBK(R10) ; ebk must be -1 for same reason RM\$SPACE_MT ; space the magtape R6,RAB\$L_STV(R8) ; set stv from block count RM\$EXRMS ; back to user
	0043 0043 0043 0043 0043	198 ;++ 199 ; 200 : perfo 201 ; 202 ; 203		ork space function
51 38 A8 FFB6' 82D2 8F 50 EF	0043 00 0043 30 0047 B1 004A 13 004F	204 NTSPACE 205 206 207 208	: MOVL BSBW CMPW BEQL	RAB\$L_BKT(R8),R1 ; get # blocks to space NT\$SPACE ; space the file via remote fal RO,# <rms\$_sup&^xffff> ; screen out unsupported error EXIT ; as rab\$l_stv_already has</rms\$_sup&^xffff>
C144 8F 50 E8 38 A8 06	0051 B1 0051 13 0056 D5 0058 19 0058	209 210 211 212 213	CMPW BEQL TSTL BLSS	; associated dap error code  RO.# <rms\$_support&^xffff> ; and let us not forget the other form  EXIT ; of the unsupported dap error code  RAB\$L_BKT(R8) ; space foreward request?  10\$ ; branch if not</rms\$_support&^xffff>
40 A9 56 D9 40 A9 56 D7	CO 005D 11 0061 0063 C2 0063 11 0067 0069	214 215 216 217 10\$: 218 219	ADDL2 BRB SUBL2 BRB	R6, IRB\$L_NRP_VBN(R9) ; update next block pointer ; join mainline  R6, IRB\$L_NRP_VBN(R9) ; update next block pointer ; exit to user

Page

```
16-SEP-1984 01:22:12 VAX/VMS Macro V04-00 5-SEP-1984 16:25:05 [RMS.SRC]RMSOMAGTA.MAR;1
                  $SPACE ROUTINE
                        0069
                        0069
                                        Sspace for disk file.
                        0069
                        0069
                                         update nbp checking for beginning and end of file conditions
                        0069
                        0069
                        0069
                                     SPDISK:
                                229
230
                        0069
                                               BLSS
             2F
56
                                                                                               ; branch if backspace
                                                        R6, IRB$L NRP_VBN(R9)
IFB$L_EBK(R1U),-
   40 A9
                   CQ
C3
                                              ADDL2
SUBL3
                        006B
                                                                                               ; bump nrp by space count
         74
             AA
                        006F
                                                                                               : past eof?
                        0072
   51
         40
             A9
                                                         IRB$L_NRP_VBN(R9),R1
                                                        305
                   1B
                                               BLEQU
                                                                                               ; branch if not
       01
                   DĪ
                        0077
                                                        R1 #1
                                               CMPL
                                                                                                exactly 1 block past? branch if not
                  12
B5
12
             05
                        007A
                                               BNEQ
                                                        IFBSW_FFB(R10)
             AA 35
                        007C
         50
                                               TSTW
                                                                                                something in last block?
                        007F
                                                        30$
                                               BNEQ
                                                                                               : branch if yes (o.k.)
                        0081
                                 238
                                 239
                        0081
                        0081
                                 240
                                         attempt to move past eof block (+1 if ffb not = 0).
                        0081
                                        position to eof block (+1 if ffb not = 0) and return an error.
                        0081
                        0081
                                244 10$:
245
246
247
248
40 A9
                                               MOVL
                                                        IFB$L_EBK(R10),IRB$L_NRP_VBN(R9); set to eof block
                  B5
13
         50
                                               TSTW
             AA
                        0086
                                                        IFB$W_FFB(R10)
                                                                                                 block empty?
                        0089
                                               BEQL
                                                        15$
                                                                                                 branch if yes
                  D6
D7
         40
             A9
                        008B
                                               INCL
                                                        IRB$L_NRP_VBN(R9)
                                                                                                bump past partial blk adjust difference count
                        008E
                                               DECL
                                                        R1
             51
                   C2
                                249 15$:
                        0090
       56
                                               SUBL2
                                                        R1, R6
                                                                                                 adjust space count
                        0093
                                                                                                  = (# wanted) - (# lacking)
                                               RMSERR
                                                        EOF 30$
                                                                                     ; indicate not all spaced
             10
                   11
                        0098
                                              BRB
                                                                                     : continue
                                        space backward for disk file.
                                257
258
259
260
                                        check for beginning of file.
                        009A
                        009A
                                    20$:
             56
56
                                              MNEGL
                                                        R6,R6
                                                                                                 get # blks to backspace
   40 A9
                   D1
                                261
                                                        R6, IRB$L_NRP_VBN(R9)
                        009D
                                              CMPL
                                                                                                 can we do entire backspace?
                                262
263
             0F
                   1F
                                              BLSSU
                                                        25$
                       00A1
                                                                                                branch if yes
                        00A3
                                               RMSERR
                                                                                                no - change status code
         40
                   D0
                                                        IRB$L NRP_VBN(R9),R6#DEV$V_FOR,-
   56
                        8A00
                                               MOVL
                                                                                                & adjust actual space count
             18
                   EO
                        OOAC
                                265
                                              BBS
                                                                                                branch if mounted foreign
                                                        IFB$L_PRIM_DEV(R10),25$
         02
                                266
                        00ae
            6A
                   D7
                              268 25$:
269 30$:
270
                                267
             56
                        00B0
                                               DECL
                                                        R6
                                                                                               ; leave nbp = 1
                   Č2
31
             56
                                               SUBL 2
                                                        R6, IRB$L_NRP_VBN(R9)
                        00B2
                                                                                               ; adjust nbp by space count
          FF83
                                               BRW
                                                        SPEXIT
                        00B6
                                                                                               ; go finish up
```

SNXTVOL. SSPACE & OTHER MAGTAPE CODE

00B9

7 (6) RMS(

RMS(

V04.

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VAX/VMS Macro V04-00

SNXTVOL. SSPACE & OTHER MAGTAPE CODE

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16-SEP-1984 01:22:12 VAX/VMS Macro V04-00 
5-SEP-1984 16:25:05 [RMS.SRC]RMSOMAGTA.MAR;1
              SNXTVOL, SSPACE & OTHER MAGTAPE CODE
                                                                                                                             Page
              SNXTVOL ROUTINE
                             334
335
                                           .SBTTL $NXTVOL ROUTINE
                    00E3
                             336 :++
337 :
                    00E3
                             338
                    00E3
                                     Entry point for $nxtvol.
                             339
                    00E3
                             340
                    00E3
                                     check that this is for a magtape and, if so, do a $flush followed by
                    00E3
                             341:
                                     call to the magtape primitive to do the next volume processing.
                            342
343 :--
                    00E3
                    00E3
                             344
                    00E 3
                             345
                                           SENTRY
STSTPT
                    00E3
                                                     RMS$NXTVOL
                             346
                    00E3
                                                     NXTVOL
                             347
                                                                                  ; set up stream ; branch if a network device
                                           SRABSET
                    00E9
                             348
349
                                                     WIFB$V_DAP,+
IFB$L_PRIM_DEV(R10),-
         3E
               E0
                    00ED
                                           BBS
                    00EF
         6A
                             350
351
                                                     NTNXTVOL
         21
                    00F0
                                                     #DEV$V_SQD,-
IFB$L_PRIM_DEV(R10),-
ERRIOP
         05
                                           BBC
               E 1
                    00F1
                                                                                   ; branch if not magtape
                             352
353
                    00F3
         6A
                    00F4
                             354
355
                                           BSBW
       FF08
                                                     RMSFLUSH
                                                                                   ; write any dirty blocks
                    00F 5
     14 50
                                                     RO.10$
                                                                                     get out on error
               E9
                    00F8
                                           BLBC
                             356
357
                                                                                   ; šet magtape control function code
   55
                                           MOVZBL
                                                     #FIB$C_NEXTVOL,R5
               9A
                    00FB
                                                                                     do the nextvol call
                                           BSBB
                                                     MTFUNC'
         3B
               10
                    00FE
                                                                                   ; if at EOF, return
                             358
359
                                                     #IRB$V_EOF, (R9), 10$
0B 69
               E0
                    0100
                                           BBS
                                                     IRB$L NRP OFF (R9)
#1, IRB$L NRP VBN(R9)
#1, IFB$L EBK(R10)
                                                                                   : set record offset to zero
                    0104
                                           CLRL
      44 A9
               D4
         01
40 A9
               00
                    0107
                             360
                                                                                   ; reset VBN to 1
                                           MOVL
               CE
31
                    010B
                                           MNEGL
                                                                                    indicate beginning of file section
74 AA
                             361
         01
                             362 105:
                                           BRW
                                                                                   ; back to user
                    010F
                                                     RMSEXRMS
       FEEE'
                             363
                    0112
                             364;
                    0112
                             365; Do the nxtvol for a network device.
                    0112
                             366;
367
                    0112
                    0112
                    0112
                             368 NTNXTVOL:
                    0112
                             369
                                           BSBW
                                                     NT$NXTVOL
                                                                                            ; Do the next vol. operation
               31
                    0115
                                           BRW
                                                     RM$EXRMS
                                                                                            : and return to the user.
```

DD 30 11

410

411

412

R6

MTSTS

RMSFCPFNC\_NOFIB

**PUSHL** 

BSBW

BRB

; p1

; perform the gio

Page

V04-

; return to caller

0169

RSB

RMS(

V04-

Page

0870 8F

09A0 8F

40 A9 44 A9

0938 8F

OD

50

1E 18

6A

18

50

06

0190

0195

0196

0196

05

482 483

486

30\$:

485 40\$:

RMSERR

RSB

CMPW

BNEQ

EOF

50\$

0E 6A

74 AA 5C AA

27

; yes - change to rms version

was it beginning of file?

RMS(

V04

12 019B ; branch if not 019D 487 RMSERR BOF ; yes - change to rms version 01A2 01A3 05 488 RSB 489 01A3 490 50\$: 01A3 491 RMSERR DPE\_R1 : default error code FE551 01A8 492 31 RMSMAPERR BRW ; map error to rms & return 493 01AB

RO, #SS\$\_BEGOFFILE

546 547 40\$: 548 30\$: 549

**RMSSUC** 

RSB

.END

01CC

01CF

01D0

V04

```
RMSOMAGTA
                                                                                          16-SEP-1984 01:22:12
5-SEP-1984 16:25:05
                                        SNXTVOL, SSPACE & OTHER MAGTAPE CODE
                                                                                                                     VAX/VMS Macro V04-00
                                                                                                                                                        Page
Symbol table
                                                                                                                     [RMS.SRC]RMSOMAGTA.MAR:1
                                                                                                                                                               (14)
$$.PSECT_EP
                                      = 00000000
                                                                        RMSRETSPC1
SSRMSTEST
                                      = 0000001A
                                                                                                                 00000118 RG
                                                                        RMSREWIND MT
                                                                                                                                   01
$$RMS_PBUGCHK
$$RMS_TBUGCHK
$$RMS_UMODE
DEV$V_FOD
DEV$V_FOR
                                      = 00000010
                                                                                                                                   Ŏ1
01
                                                                        RMSRSET.
                                                                                                                 000000C1 RG
                                         00000008
                                                                        RMSSPACE MT
                                      = 00000004
                                                                                                                                   Ŏ1
01
                                                                        RMSWRITEOF
                                                                                                                 000000D6 RG
                                         ŎŎŎŎŎŌŒ
                                                                                                                 000001AB RG
                                                                        RMSWTTAPMARK
                                         00000018
                                                                        RMS$NXTVOL
                                                                                                              = 000000E1 RG
                                                                                                                                   Õ1
DEVSV_MBX
DEVSV_SQD
ERRIOF
                                         00000014
                                                                                                                                   01
                                                                        RMS$SPACE
                                                                                                              = FFFFFFE RG
                                      = 00000005
                                                                        RMS$_BOF
                                                                                                              = 00018198
                                         00000089 R
                                                            01
                                                                                                              = 000103A
                                                                        RMS$_DPE
                                         00000040 R
                                                            01
EXIT
                                                                        RMS$_EOF
                                                                                                              = 0001827A
FÎBSC_LENGTH
FIBSC_NEXTVOL
FIBSC_REWINDFIL
                                      = 00000040
                                                                        RMS$_IOP
                                                                                                              = 00018574
                                      = 00000003
                                                                        RMS$_SUP
RMS$_SUPPORT
                                                                                                              = 000182D2
                                      = 00000006
                                                                                                              = 0001C144
FIBSC_SPACE
FIBSL_CNTRLVAL
FIBSW_CNTRLFUNC
                                      = 00000004
                                                                        SPDISK
                                                                                                                 00000069 R
                                      = 00000018
                                                                        SPEXIT
                                                                                                                 0000003C R
                                                                                                                                   Ŏ1
                                      = 00000016
                                                                        SS$_BEGOFFILE
                                                                                                              = 00000938
IFB$L_EBK
IFB$L_PRIM_DEV
                                      = 00000074
                                                                        SS$ ENDOFFILE
                                                                                                              = 00000870
                                      = 00000000
                                                                                                              = 000009A0
                                                                        SSS ENDOF VOLUME
IFBSV_DAP
IFBSV_EOF
                                      = 0000003E
                                                                        TPTSL_NXTVOL
                                                                                                                                   01
                                                                                                                                   Ŏi
                                      = 00000021
                                                                        TPT$L_SPACE
                                                                                                                 ******
IFBSV WRTACC
                                      = 00000030
                                      = 0000005c
IOSM_NOW
IOSM_NOWAIT
IOS_ACPCONTROL
                                      = 00000040
                                      = 00000080
                                      = 00000038
105 REWIND
                                      = 00000024
108_SKIPRECORD
                                      = 00000026
105 PRITEOF
                                      = 00000028
IRB$L_CURBDB
IRB$L_IOS
IRB$L_NRP_OFF
                                         00000020
                                         000000c
                                      = 00000044
IRB$L_NRP_VBN
                                      = 00000040
IRBSV_BIO_LAST
IRBSV_EOF
                                         00000027
                                         00000021
IRBSW_NRP_OFF
                                        00000044
MTERR
                                         0000016A
                                         0000013D
                                                           01
MTFNC1
                                                           Ŏ1
MTFUNC
                                         0000013B
                                         0000012E
                                                           01
MTFUNC_FOR
                                                           Õ1
                                         0000012C
MTFUNC_FOR1
                                                           01
MTSTS
                                         00000166
                                         00000169
                                                           Ŏ1
TIXIM
                                         000000E1 R
NOTMBX
                                                           01
NT$NXTVOL
                                                           01
                                         *****
                                                           01
NT$SPACE
                                         ******
                                         00000112 R
00000043 R
NTNXTVOL
                                                           01
                                                           01
NTSPACE
PIOSA_TRACE
                                                           01
                                         *****
RABSL_BKT
RABSL_STV
                                      = 00000038
```

00000000

\*\*\*\*\*

\*\*\*\*\*\*

01

01

01

01

01

01

RMSEXRMS

RMSFLUSH

RMSGETSPC1

**RMSMAPERR** 

RMSFCPFNC NOFIB

RMSFCPFNC\_P4

V04

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V04.

RMSOMAGTA
Psect synopsis

Psect synopsis!

PSECT name PSECT No. Allocation Attributes 00000000 NOPIC ABS 00 ( 0.) sR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE 000001D0 USR GBL NOSHR RMSRMS 464.) 01 PIC CON REL EXE RD NOWRT NOVEC BYTE 1.) SABSS 00000000 0.) 02 ( 2.) USR NOPIC CON LCL NOSHR RD ABS EXE WRT NOVEC BYTE

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	36 137	00:00:00.07	00:00:01.74
Command processing Pass 1	413	00:00:00.83 00:00:15.45	00:00:07.20 00:00:35.81
Symbol table sort Pass 2	101 101	00:00:02.52 00:00:02.96	00:00:03.54
Symbol table output Psect synopsis output	10	00:00:00.12 00:00:00.03	00:00:00.22
Cross-reference output Assembler run totals	701	00:00:00.00 00:00:21.99	00:00:00.00 00:00:54.02

The working set limit was 1650 pages. 88641 bytes (174 pages) of virtual memory were used to buffer the intermediate code. There were 90 pages of symbol table space allocated to hold 1765 non-local and 22 local symbols. 549 source lines were read in Pass 1, producing 14 object records in Pass 2. 25 pages of virtual memory were used to define 24 macros.

! Macro library statistics !

Macro library name

Macros defined

\_\$255\$DUA28:[RMS.OBJ]RMS.MLB;1 \_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1 \_\$255\$DUA28:[SYSLIB]STARLET.MLB;2 TOTALS (all libraries)

1885 GETS were required to define 20 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:RMSOMAGTA/OBJ=OBJS:RMSOMAGTA MSRCS:RMSOMAGTA/UPDATE=(ENHS:RMSOMAGTA)+EXECMLS/LIB+LIBS:RMS/LIB

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